

**reduced mobile phase velocity,  $v$** 

*in chromatography*

A term used mainly in liquid chromatography. It compares the mobile phase velocity with the velocity of diffusion into the pores of the particles (the so-called diffusion velocity,  $u_D$ ):

$$v = \frac{\bar{u}}{u_D} = \frac{\bar{u} d_p}{D_M}$$

In open-tubular chromatography:

$$v = \frac{\bar{u} d_c}{D_M}$$

**Source:**

PAC, 1993, 65, 819 (*Nomenclature for chromatography (IUPAC Recommendations 1993)*) on page 840